

Please type a plus sign (+) inside this box → +

PTO/SB/08A (10-98)
Approved for use through 10/31/99. OMB 0851-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
Application Number		10/694,770	
Filing Date		October 29, 2003	
First Named Inventor		Kenneth W. COWANS	
Group Art Unit		3747	
Examiner Name			
Attorney Docket Number			

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JC		4,987,863		Paul D. Daly	01/29/1991	
		5,115,775		David J. Gruenwald	05/26/1992	
		5,195,469		Ahmed Syed	03/23/1993	
		5,730,099		George T. Gillespie	03/24/1998	
		5,832,892		Yasuhito Yaoita	11/10/1998	
		5,857,450		Richard E. Staerzl	01/12/1999	
		5,934,228		Fred O. Wheat	08/10/1999	
		6,029,452		Edward M. Halimi et al.	02/29/2000	
		6,055,954		Yoshihiro Takada et al.	05/02/2000	
		6,095,111		Minoru Ueda et al.	08/01/2000	
		6,125,801		Edward Charles Mendler	10/03/2000	
		6,155,212		Roy E. McAlister	12/05/2000	
		6,305,346		Minoru Ueda et al.	10/23/2001	
		4,033,304		Luria	07/05/1977	
		4,516,537		Nakahara et al.	05/14/1985	
		6,260,520		Van Reatherford	07/17/2001	
		4,860,711		Morikawa	08/1989	
		6,302,067		Merritt	10/2001	
	4,715,347		Hampton et al.	12/1987		
	5,803,026		Merritt et al.	09/1998		

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Office ³	Number ⁴	Kind Code ⁵ (If known)				

Examiner Signature		Date Considered	4/20/04
--------------------	--	-----------------	---------

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (10-88)
Approved for use through 10/31/99. OMB 0851-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/694,770
		Filing Date	October 29, 2003
		First Named Inventor	Kenneth W. COWANS
		Group Art Unit	3747
		Examiner Name	
Sheet 1	of 4	Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiner Initials ²	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
UK		3,633,552		Ernest G. Huber	01/11/1972	
		3,741,175		Henri Andre Rouger	06/26/1973	
		3,805,752		Roy S. Cataldo	04/23/1974	
		4,036,202		Henry Weslake	07/19/1977	
		4,046,111		Tetsuro Nagano	09/06/1977	
		4,066,045		Takao Suzuki	01/03/1978	
		4,157,080		Craig C. Hill	06/05/1979	
		4,181,102		Shizuo Yagi et al.	01/01/1980	
		4,182,284		Shizuo Yagi et al.	01/08/1980	
		4,218,993		Donald E. Blackburn	08/26/1980	
		4,241,705		Albert M. Karaba et al.	12/30/1980	
		4,286,552		Saburo Tsutsumi	09/01/1981	
		4,306,526		Fred S. Schaub et al.	12/22/1981	
		4,480,968		John W. Duerr	11/06/1984	
		4,502,283		David M. Wandel	03/05/1985	
		4,503,815		Ronald M. Amm	03/12/1985	
		4,505,117		Hideaki Matsuoka	03/19/1985	
	U		4,738,110		Hidenori Tateno	04/19/1988
		4,760,703		Shunji Minami et al.	08/02/1988	
		4,932,211		Peter Buthmann et al.	06/12/1990	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				

Examiner Signature	Kamen	Date Considered	4/20/04
--------------------	-------	-----------------	---------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08B (10-98)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION D DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete If Known	
		Application Number	10/694,770
		Filing Date	October 29, 2003
		First Named Inventor	
		Group Art Unit	3747
		Examiner Name	
Sheet 4	of 4	Attorney Docket Number	

[illegible]

**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.